

Claim Amendments

1-13 (Canceled)

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14. (Currently Amended) A process for producing aligned carbon nanotube films, wherein a carbon compound is decomposed using a substrate that is obtained by coating a ceramic sheet with an aluminum film to form an aluminum-coated ceramic sheet, next loading a ~~cobalt~~ metallic catalytic compound on said aluminum-coated ceramic sheet and then calcining the resulting ceramic sheet to form said substrate, thereby forming a film of carbon nanotubes on the surface of said substrate which are aligned in a direction perpendicular to said substrate.

15. (Currently Amended) The process according to claim 14, wherein the ~~cobalt~~ metallic catalytic compound is at least one member of the group consisting of ~~cobalt~~ a metallic nitrate, ~~cobalt~~ a metallic chloride, ~~cobalt~~ a metallic fluoride, ~~cobalt~~ a metallic bromide, ~~cobalt~~ a metallic iodide, ~~cobalt~~ a metallic sulfate, ~~cobalt~~ a metallic carbonate, ~~cobalt~~ a metallic acetate, ~~cobalt~~ a metallic naphthenate, ~~cobalt~~ a metallic octacarbonyl, ~~cobalt~~ a metallic phthalocyanine, ~~cobalt~~ a metallic hydroxide and ~~cobalt~~ a metallic oxide.

16. (Currently amended) The process according to claim 14, wherein the ~~cobalt~~ metallic catalytic compound is a suspension of ~~cobalt~~ a metallic hydroxide obtained by adding a base to an aqueous solution of a ~~cobalt~~ metallic salt.

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17. (Currently amended) The process according to claim 16, wherein the ~~co~~metallic catalytic salt is ~~co~~a metallic nitrate, ~~co~~a metallic chloride, ~~co~~a metallic fluoride, ~~co~~a metallic bromide, ~~co~~a metallic iodide, ~~co~~a metallic sulfate, ~~co~~a metallic carbonate, ~~co~~a metallic acetate or ~~co~~a metallic naphthenate.

18. (Previously amended) The process according to claim 16, wherein the base is ammonia or a water-soluble amine.

19. (Original) The process according to claim 18, wherein aqueous ammonia is used as the base.

20. (Currently amended) The process according to claim 14, wherein the ~~co~~a metallic catalytic compound which is loaded on the aluminum-coated ceramic sheet comprises particles with a size of 1 nm to 100 nm.

21. (Currently amended) The process according to claim 14, wherein the ~~co~~metallic catalytic compound is loaded by impregnation, dipping, a sol-gel process or a reverse micelle process.

22. (Previously amended) The process according to claim 14, wherein the calcining temperature is between 300 and 800°C.

23-24 (Canceled)

25. (Previously presented) The process according to claim 14, wherein the ceramic sheet is heated to dry before aluminum is deposited.

26. (Previously presented) The process according to claim 14, wherein aluminum is deposited by vacuum deposition, electrochemical deposition or sputtering.

27-28 (Canceled)

29. (Previously presented) The process according to claim 14, wherein the ceramic sheet is a porous ceramic sheet.

30. (Previously presented) The process according to claim 14, wherein the ceramic sheet is made of silica-alumina.

31. (Previously presented) The process according to claim 14, wherein the ceramic sheet is heated to dry before aluminum is deposited.

32. (Previously presented) A process for producing aligned carbon nanotube films, wherein a carbon compound is decomposed using a substrate that is obtained by loading a cobalt

compound on an aluminum-coated ceramic sheet, said cobalt compound being a suspension of cobalt hydroxide obtained by adding a base to an aqueous solution of a cobalt salt, and calcining the cobalt compound-loaded ceramic sheet, thereby forming a film of carbon nanotubes on the surface of said substrate which are aligned in a direction perpendicular to said substrate.

33. (Previously presented) The process according to claim 32, wherein said cobalt salt is cobalt nitrate, cobalt chloride, cobalt fluoride, cobalt bromide, cobalt iodide, cobalt sulfate, cobalt carbonate, cobalt acetate or cobalt naphthenate.

34. (Previously presented) The process according to claim 33, wherein the base is ammonia or a water-soluble amine.

35. (Previously presented) The process according to claim 34, wherein aqueous ammonia is used as the base.

36. (New) The process according to claim 14, wherein the metallic catalytic compound is at least one member of the group consisting of a cobalt compound, a nickel compound, an iron compound, a platinum compound, a molybdenum compound and a ruthenium compound.

37.(New) The process according to claim 14, wherein the metallic catalytic compound is at least one member of the group consisting of a cobalt compound, a nickel compound and an iron compound.

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38. (New) The process according to claim 14, wherein the metallic catalytic compound is a cobalt compound.

39. (New) The process according to claim 14, wherein the carbon compound is at least one member of the group consisting of a saturated hydrocarbon compound, an unsaturated hydrocarbon compound, an aromatic hydrocarbon compound and an oxygen-containing compound.

40. (New) The process according to claim 14, wherein the reaction temperature for the step of decomposing the carbon compound is between 400° and 1100°C.

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